

PATENT APPLICATION

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IN THE U.S. PATENT AND TRADEMARK OFFICE

May 23, 2001

Applicants : Yoshihiko GOTOH et al

For : METHOD FOR MANUFACTURING QUARTZ GLASS INGOT  
AND A MANUFACTURING APPARATUS

Atty. Docket No.: Ishii Case 17

Assistant Commissioner for Patents  
Washington, DC 20231

**PRELIMINARY AMENDMENT CANCELING CLAIMS**

Sir:

Prior to calculation of the filing fee in the above-identified application, kindly enter the following:

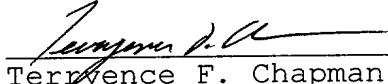
IN THE CLAIMS

Please amend Claims 4, 7, 8 and 12 as shown on the attached marked-up page. Pursuant to 37 CFR § 1.121, a replacement page showing the amended claims in clean form is also attached.

REMARKS

This amendment cancels claims to reduce the filing fee.  
Please enter this amendment before calculating the filing fee.

Respectfully submitted,

  
\_\_\_\_\_  
Terryence F. Chapman

TFC/smd

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Encl: None

4. (Amended) The quartz glass ingot manufacturing apparatus of claim 2-~~or~~-3, wherein the furnace bed being covered with a layer of zirconia particles.

7. (Amended) The method of manufacturing an elongated quartz glass ingot of claim 5-~~or~~-6, wherein laying a quartz glass plate between the furnace bed and the nozzle, thereby sealing the nozzle from the atmosphere of the furnace.

8. (Amended) The method for manufacturing an elongated quartz glass ingot of ~~any one of claim 5 to~~ <sup>7</sup>Claim 5, wherein the nozzle being projected to inside of the furnace.

12. (Amended) The quartz glass burner ~~for~~  
manufacturing a quartz glass ingot of claim 10-~~or~~ 11,  
wherein the oxygen gas nozzles being arranged noncircular  
and equidistantly and a part of the hydrogen gas being  
introduced between the oxygen gas nozzles.

4. (Amended) The quartz glass ingot manufacturing apparatus of claim 2, wherein the furnace bed being covered with a layer of zirconia particles.

7. (Amended) The method of manufacturing an elongated quartz glass ingot of claim 5, wherein laying a quartz glass plate between the furnace bed and the nozzle, thereby sealing the nozzle from the atmosphere of the furnace.

8. (Amended) The method for manufacturing an elongated quartz glass ingot of Claim 5, wherein the nozzle being projected to inside of the furnace.

12. (Amended) The quartz glass burner for manufacturing a quartz glass ingot of claim 10, wherein the oxygen gas nozzles being arranged noncircular and equidistantly and a part of the hydrogen gas being introduced between the oxygen gas nozzles.